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20bservations of Amalthæa (113), made at Bilk, near Dusseldorf.
Rv Dr. R. Luther. By Dr. R. Luther.

(Extract of a Letter from Dr. Luther to the Astronomer Royal).

I have the honour to send you some observations of my new planet (113), of the 10-11 magnitude, for which the Berlin astronomers have proposed the name Amalthæa.

1871.	M.T. at Bilk.	R.A.	N.P.D.	No. of Comps.
March 12	h m s 10 59 24.9	h m s	82 14 24.6	8
13	9 21 4.5	12 0 24.48	82 6 47.5	6
15	9 8 43.3	11 58 41.65	81 50 53.6	8
19	9 5 33.6	11 55 12.12	81 19 49.7	10
20	9 6 35.4	11 54 19.64	81 12 19.0	10
22	9 20 3.7	11 52 33.90	80 57 35°1	11
23	8 58 HI.I	11 51 42.48	80 50 38.2	10
24	9 55 400	11 50 48.63	80 43 29.1	10

Elements of Amalthæa.

The following elements have been computed by Dr. Tietjen, from observations made at Berlin on March 12, 18, and 25:

Berlin M.T.

 \mathbf{M} 342 55 31.7 $\pi - \Omega$ 75 25 52.6 198 59 27.2 83123 33 34.6 5 6 49.3 4 38 28:3 964".224

1871, March 25^d·5.

Log aSidereal revolution 1344'1 days.

New Comet.

(Extract of a Letter from Dr. Winnecke to Mr. Hind, dated Carlsruhe, April 8.)

I discovered yesterday evening, at about 8½, a small telescopic comet in Perseus, the position of which with reference to a small

anonymous star of Argelander's Durchmusterung in its neighbourhood was estimated,

Decl.
$$+53^{\circ}55^{\circ}$$

Observation of Winnecke's Comet at Mr. Bishop's Observatory, Twickenham.

There was an evident extension of the nebulosity on the side opposite to the Sun, as if a tail might be expected on the comet's nearer approach. At present it will not be observed without a good telescope.

Elements of Winnecke's Comet. By Mr. Hind.

From the first observation of the new comet on the evening of discovery, and two by myself with Mr. Bishop's Equatoreal on the 10th and 12th, I have deduced the following elements of the orbit:-

Motion direct.

The comet appears to be quite distinct from any previously computed.